

**Vibration-Proof Holding . . .
Quick, Fool-Proof Release**

SNAP-SLIDE FASTENERS

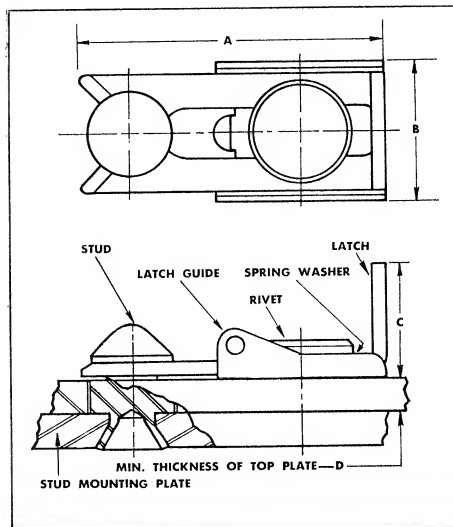
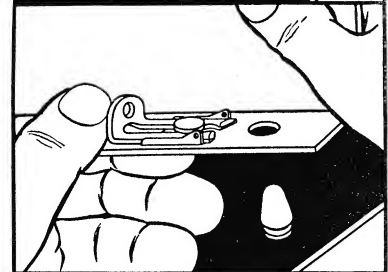
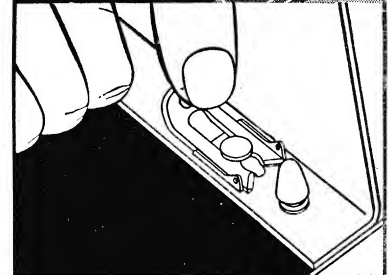
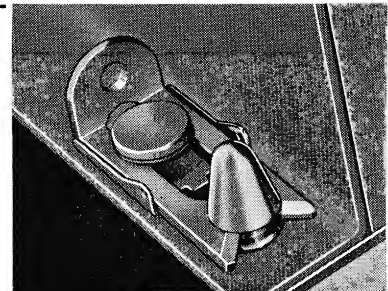
Approved under Air Force-Navy Standards

Here's a simple, easy means of attaching assemblies with a sheet metal plate or flange to a sub plate or base casting. It withstands shock or vibration, and yet allows quick removal for inspection or repair. Instant snap action engages or releases fastener—no tools are required! After installation, fasteners never need adjustment . . . even with repeated use.

Three sizes available for different load requirements. Large and medium sizes are made of

corrosion resistant stainless steel and conform to AN Standards 3195, 3196, 3198 and 3199. Small size is made of nickel-plated brass. Stock rivets and studs fit various thicknesses of flanges and mounting plates, special parts can also be supplied.

Typical Applications: Holding amplifier unit in astro tracking system; integral part of electronic chassis; holding commutator switching unit of reconnaissance equipment used on supersonic jets; holding control unit on automatic voltage regulator; providing quick internal access to flight camera case; locking amplifiers to rack in computer unit.

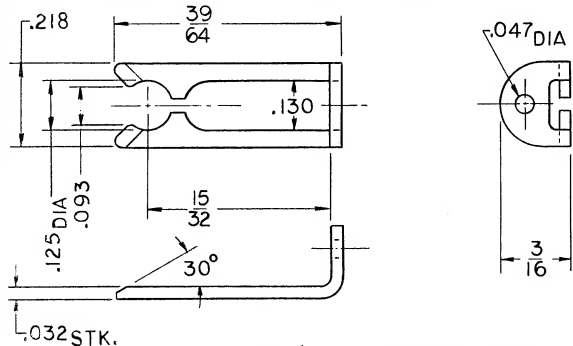
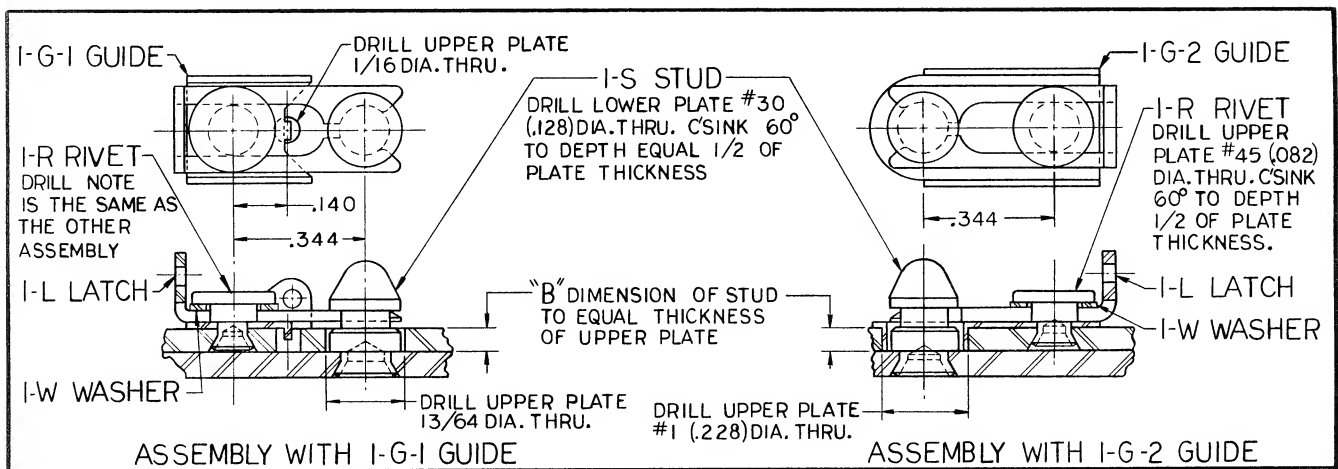


DIMENSIONS	A	B	C	D	ULTIMATE LOAD
Small	$\frac{5}{8}$	$\frac{9}{32}$	$\frac{7}{32}$	.040	200 lbs.
Medium	$1\frac{1}{8}$	$\frac{17}{32}$	$\frac{1}{16}$	.060	600 lbs.
Large	$1\frac{1}{2}$	$\frac{21}{32}$	$\frac{1}{8}$	.093	1200 lbs.

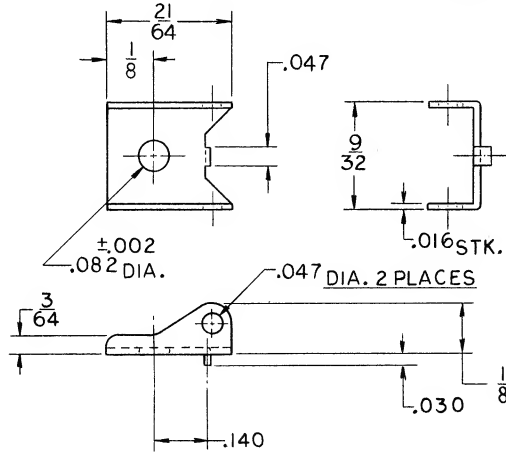
Write for complete details today:

DIMCO-GRAY COMPANY

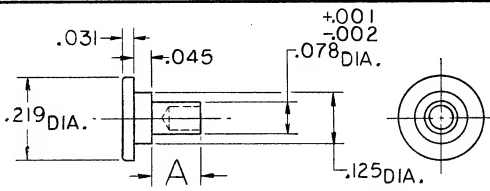
207 E. SIXTH STREET • DAYTON, OHIO



MAT'L: PHOS. BRONZE SPRING
TEMPER NICKEL PLATED.

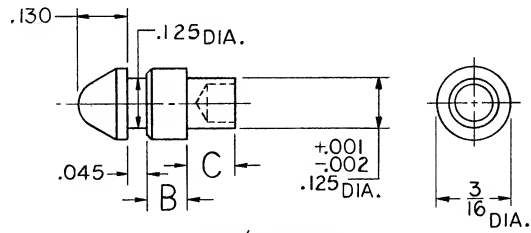


MAT'L: BRASS
NICKEL PLATED



MAT'L: BRASS
NICKEL PLATED

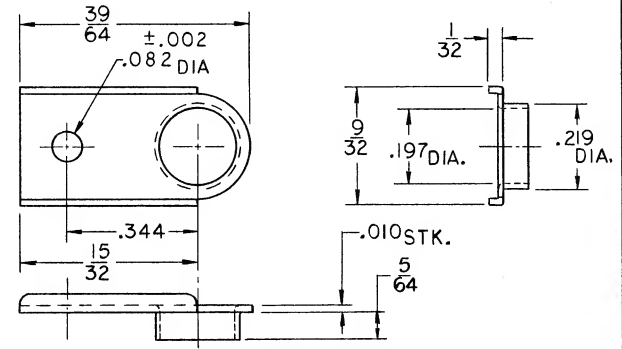
STOCK ITEMS	A	STOCK ITEMS	A
I-R - 057	.057	I-R - 125	.125
I-R - 078	.078		
I-R - 093	.093		



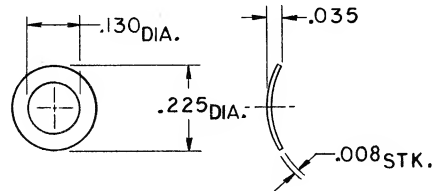
MAT'L: BRASS
NICKEL PLATED

NOTE: SELECT 'B' APPROX. EQUAL TO UPPER PLATE THICKNESS
SELECT MAXIMUM 'C' STD. LENGTH NOT TO EXCEED
LOWER PLATE THICKNESS.

STOCK ITEMS	B	C	STOCK ITEMS	B	C
I-S-042-062	.042	.062	I-S-071-093	.071	.093
I-S-042-093	.042	.093	I-S-080-093	.080	.093
I-S-051-062	.051	.062	I-S-090-093	.090	.093
I-S-051-093	.051	.093	I-S-125-125	.125	.125
I-S-063-062	.063	.062			
I-S-063-093	.063	.093			



MAT'L: BRASS
NICKEL PLATED



MAT'L: PHOS BRONZE, SPRING
TEMPER NICKEL PLATED

NO 1 MINIATURE

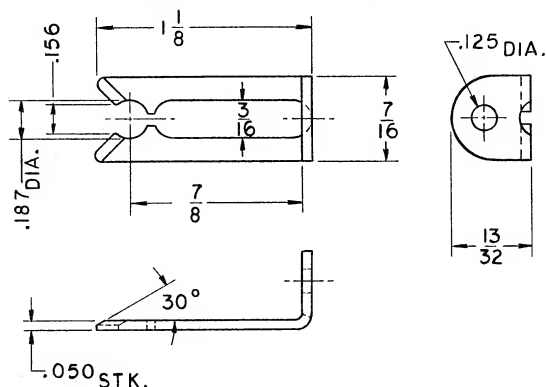
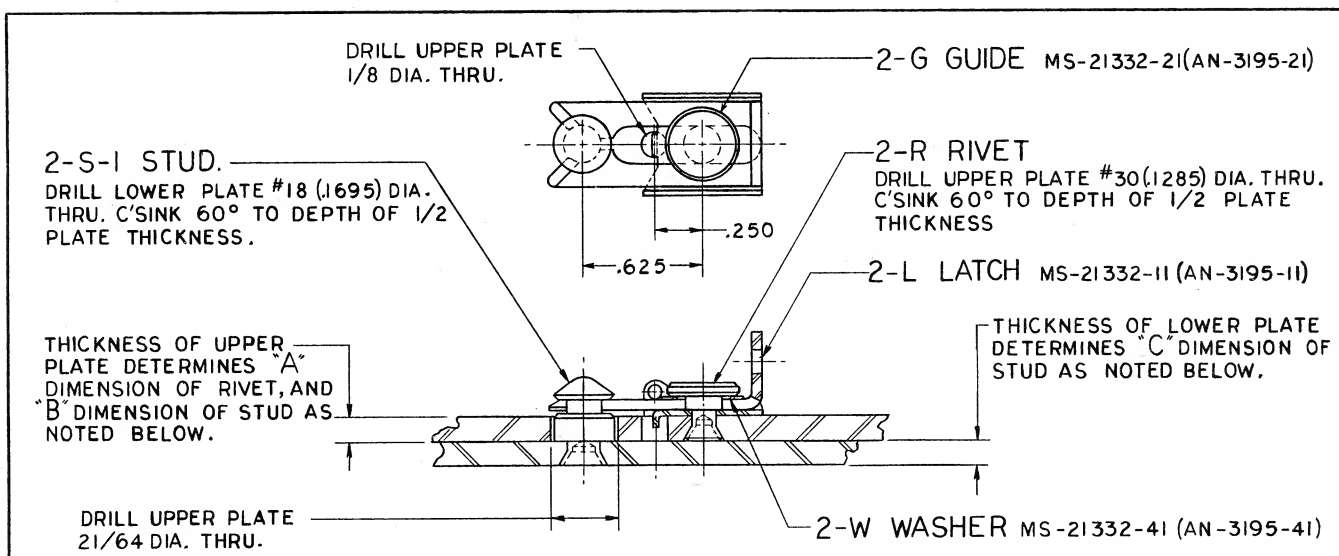
SNAPSLIDE FASTENER

DATE: 4-2-62

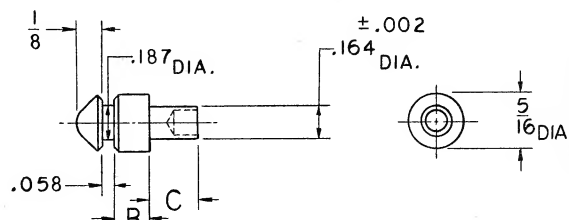
DIMCO-GRAY COMPANY

207 EAST SIXTH STREET

DAYTON 2, OHIO



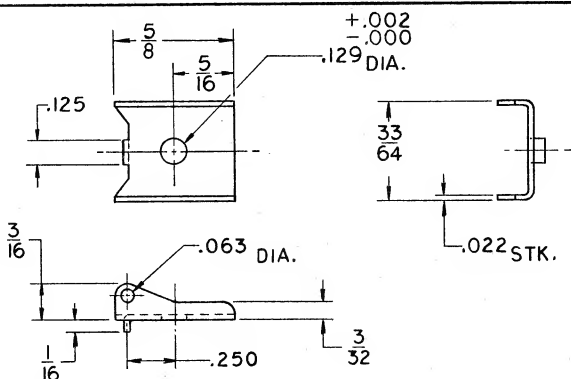
2-L LATCH MAT'L: STAINLESS STEEL.
BALL BURNISH & PASSIVATE.



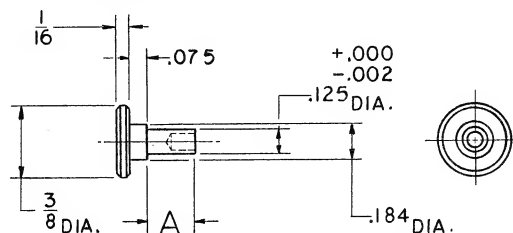
2-S-1 STUD MAT'L: STAINLESS STEEL.
SMOOTH MACHINE & PASSIVATE.
NOTE: SELECT "B" APPROX. EQUAL TO UPPER PLATE THICKNESS PLUS .010; THEN SELECT STOCK "C" LENGTH NOT TO EXCEED LOWER PLATE THICKNESS.

STOCK ITEMS	"B"	"C"	AN-Nº	MS-Nº
2-S-1-062-125	.062	.125	AN-3198-4	MS-21325-4
2-S-1-075-093	.075	.093	AN-3198-5	MS-21325-5
2-S-1-075-187	.075	.187		
2-S-1-075-312	.075	.312	AN-3198-2	MS-21325-2
2-S-1-090-093	.090	.093		
2-S-1-090-187	.090	.187		
2-S-1-105-109	.105	.109	AN-3198-1	MS-21325-1
2-S-1-105-187	.105	.187		
2-S-1-115-187	.115	.187		
2-S-1-135-187	.135	.187		
2-S-1-156-125	.156	.125	AN-3198-3	MS-21325-3

FOR APPLICATION REQUIRING THREADED STUDS,
SEE ATTACHED SHEET



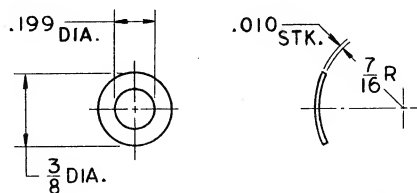
2-G-1 GUIDE MAT'L: STAINLESS STEEL.
BALL BURNISH & PASSIVATE.



2-R RIVET MAT'L: STAINLESS STEEL.
SMOOTH MACHINE & PASSIVATE.

NOTE SELECT "A" LENGTH NOT TO EXCEED UPPER PLATE THICKNESS PLUS .022

STOCK ITEMS	"A"	AN-Nº	MS-Nº
2-R-078	.078		
2-R-093	.093		
2-R-113	.113	AN-3195-31	MS-21332-31
2-R-141	.141		
2-R-163	.163	AN-3195-34	MS-21332-34



2-W WASHER MAT'L: PHOS. BRONZE SPRING
TEMPER. NICKEL PLATED.

NO-2 MEDIUM

SNAPSLIDE FASTENER

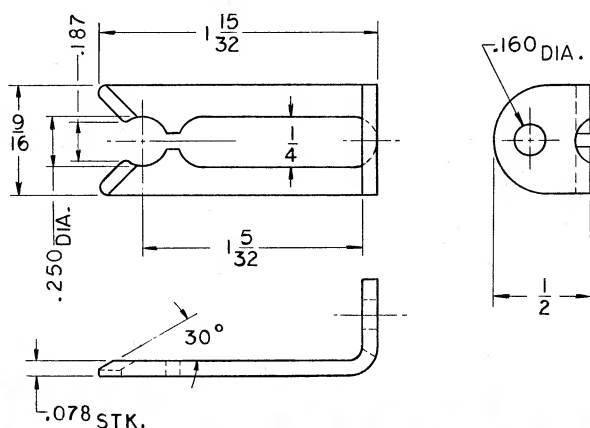
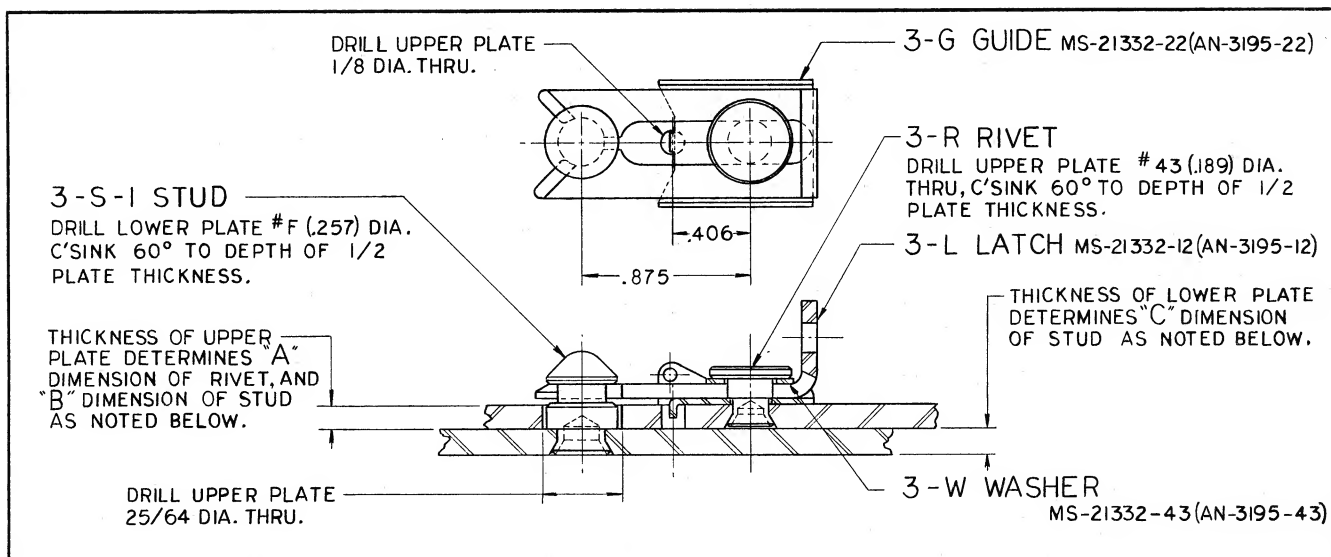
DATE 5-17-62

MARK

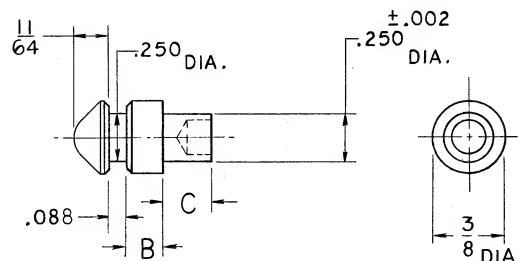
DIMCO-GRAY COMPANY

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3-L LATCH MAT'L: STAINLESS STEEL.
 BALL BURNISH & PASSIVATE.

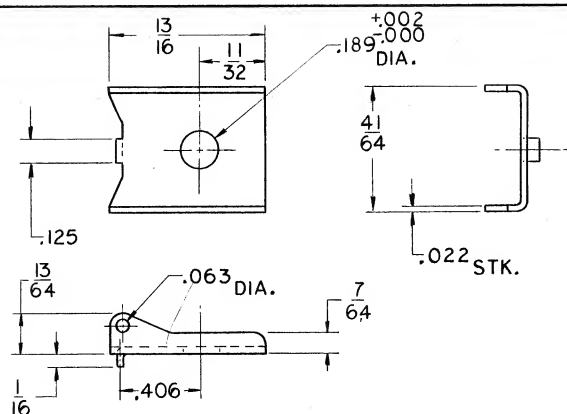


3-S-1 STUD MAT'L: STAINLESS STEEL
 SMOOTH MACHINE & PASSIVATE

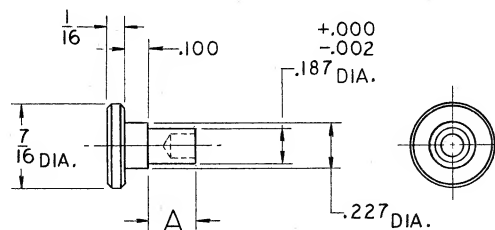
NOTE: SELECT "B" APPROX. EQUAL TO UPPER PLATE
 THICKNESS PLUS .015; THEN SELECT STOCK "C"
 LENGTH NOT TO EXCEED LOWER PLATE THICKNESS.

STOCK ITEMS	B	C	STOCK ITEMS	B	C
3-S-1-080 - 125	.080	.125	3-S-1-140 - 125	.140	.125
3-S-1-095 - 125	.095	.125	3-S-1-140 - 250	.140	.250
3-S-1-105 - 093	.105	.093	3-S-1-155 - 187	.155	.187
3-S-1-105 - 187	.105	.187			
3-S-1-125 - 156	.125	.156			

FOR APPLICATION REQUIRING M.S. STANDARD
 STUDS, REFER TO MS-21323 (AN-3196)



3-G GUIDE MAT'L: STAINLESS STEEL.
 BALL BURNISH & PASSIVATE.



3-R RIVET MAT'L: STAINLESS STEEL
 SMOOTH MACHINE & PASSIVATE

NOTE: SELECT "A" LENGTH NOT TO EXCEED UPPER PLATE
 THICKNESS PLUS .022

STOCK ITEMS	"A"	AN-Nº	MS-Nº
3-R-105	.105		
3-R-138	.138	AN-3195-33	MS-21332-33

3-W WASHER MAT'L: PHOS. BRONZE SPRING
 TEMPER. NICKEL PLATED.

NO. 3 LARGE

SNAPSLIDE FASTENER

DATE: 5-12-62

MARK

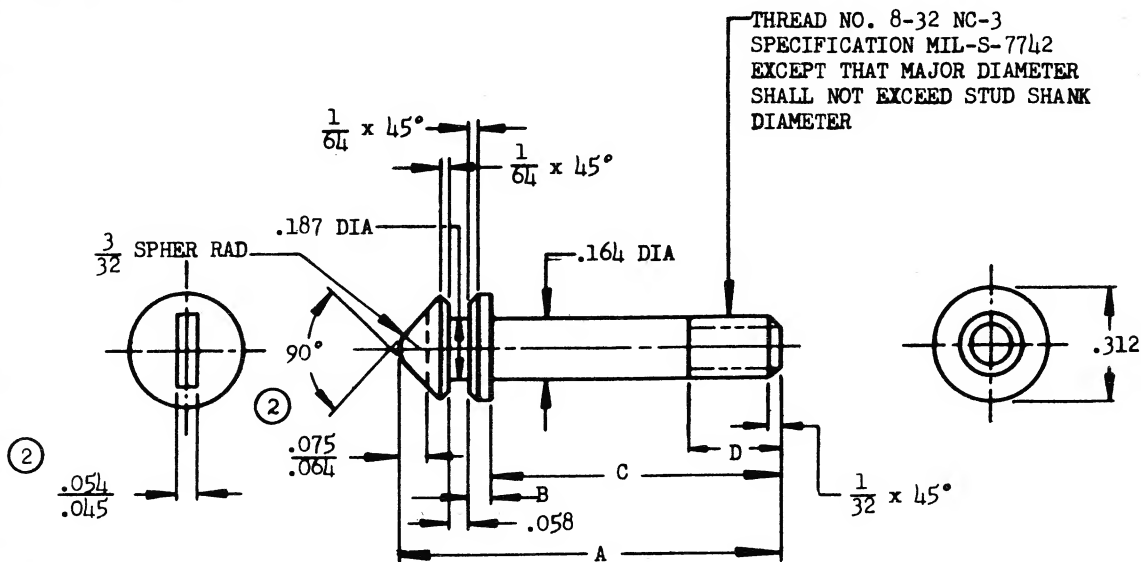
DIMCO-GRAY COMPANY

207 EAST SIXTH STREET

DAYTON 2, OHIO

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NOTE.—This drawing was approved by joint action of the Air Force and Navy Department as the Air Force-Navy standard for the procurement of aeronautical supplies. This drawing shall become effective for the procurement of aeronautical supplies, or for use in new design, not later than six months after the latest date of approval above.



AN PART NO.	AN PART NO.	A	B	C	D
AN3199-1A	(a) AN3199-1	41/64	.105	11/32	9/32
AN3199-2A	(a) AN3199-2		.077	3/8	5/16
AN3199-3A	(a) AN3199-3	51/64	.075	17/32	3/8
AN3199-4A	(a) AN3199-4	31/32	.091	11/16	
AN3199-5A	(a) AN3199-5	1- 1/16	.055	13/16	1/2
AN3199-6A	(a) AN3199-6	1- 1/8	.105	53/64	

- (2) (a) PART NO. AN3199-1 THROUGH AN3199-6 INACTIVE FOR DESIGN AFTER 16 SEPTEMBER 1954. PART NO. AN3199-1A THROUGH AN3199-6A REPLACE AND ARE INTERCHANGEABLE PHYSICALLY BUT NOT FUNCTIONALLY WITH PART NO. AN3199-1 THROUGH AN3199-6, RESPECTIVELY. AN3199-1A THROUGH AN3199-6A STUDS HAVE SLOTTED HEADS AS SHOWN. INACTIVATED STUDS, AN3199-1 THROUGH AN3199-6, ARE IDENTICAL WITH PART NO. AN3199-1A THROUGH AN3199-6A EXCEPT THAT HEADS ARE NOT SLOTTED.

- (2) FOR DEFINITION AND APPLICATION OF DRAWING STATUS NOTES, SEE ANA BULLETIN NO. 337.

MATERIAL: CORROSION RESISTING STEEL, SPECIFICATION QQ-S-763, CLASS 3 OR 7.

FINISH: PASSIVATE.

REMOVE BURRS.

DIMENSIONS IN INCHES. UNLESS OTHERWISE SPECIFIED, TOLERANCES: FRACTIONS $\pm 1/64$, DECIMALS $\pm .002$, ANGLES $\pm 2^\circ$.

TO BE USED WITH AN3195.

PROCUREMENT
SPECIFICATION

NONE

AIR FORCE-NAVY AERONAUTICAL STANDARD

STUD, STYLE IV SNAPSLIDE FASTENER

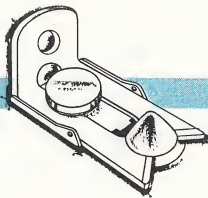
AN3199

APPROVED 13 Sep 45 REVISED 1 14 Mar 52 2 16 Sep 54

DIMCO-GRAY COMPANY

207 EAST SIXTH STREET • DAYTON 2, OHIO

DIMCO-GRAY COMPANY



207 E. SIXTH STREET • DAYTON 2, OHIO

PHONE 222-6703 • AREA CODE 513

SNAPSLIDE FASTENERS

April 6, 1965

Mr. T. Nelson
Systems Consultant
Box 1546
Poughkeepsie, New York 12603

Gentlemen:

Here's the information you recently requested on the DIMCO-GRAY Snapslide Fasteners.

If you have a fastener problem which requires any or all of the following specifications, our Snapslide Fasteners should definitely do the job:

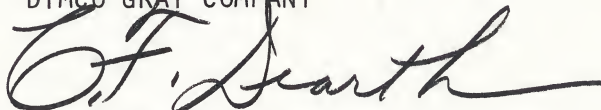
1. Quick manual engagement without any tools.
2. Inherent resistance to shock and vibration.
3. Corrosion resistance of 18-8 stainless steel.
4. Simple rugged design with years of service testing on military and commercial jobs.
5. Certification under MIL Standards.

The enclosed data sheets illustrate the three sizes in which our DIMCO-GRAY Snapslide Fasteners are available. On each particular size, the Latch, Guide and Washer are standard while the Rivet and stud have variable dimensions to suit the thicknesses of sheet metal being joined.

If the listed standard sizes of Rivets and Studs do not seem suitable for your particular application, we will be glad to quote on special lengths. Just drop us a note and describe in detail what you need. With our reply we'll send you some sample parts for a trial installation.

May we hear from you soon?

P. S. We are advising our representatives,
S.D. Christie & Assoc. (N.Y.C. Sincerely yours,
phone OR 4-9010) of your interest
in Snapslides and you will hear from them. DIMCO-GRAY COMPANY


C. F. Dearth
Sales Manager

CFD:mk
Encl.